

WHAT IS CLAIMED IS

1. A deposited-film forming apparatus comprising an evaporating section for a depositing material, and a tubular barrel formed of a mesh net for accommodation of work pieces, on each of the surfaces of which a depositing material is to be deposited, said evaporating section and said tubular barrel being mounted in a vacuum-treating chamber, wherein said tubular barrel is supported circumferentially outside a horizontal rotational axis of a support member rotatable about said rotational axis, for rotation about said rotational axis, so that the distance between said tubular barrel rotated about said rotational axis of said support member and said evaporating section can be varied by rotating said support member.

2. A deposited-film forming apparatus according to claim 1, wherein a plurality of said tubular barrels are supported in an annular shape circumferentially outside said rotational axis of said support member.

3. A deposited-film forming apparatus according to claim 1, wherein said tubular barrel is detachably supported on said support member.

4. A deposited-film forming apparatus comprising an evaporating section for a depositing material, and a tubular barrel rotatable about a horizontal rotational axis and formed of a mesh net for accommodation of work pieces, on each of the surfaces of which a depositing material is to be deposited, said evaporating section and said tubular barrel being mounted in a

vacuum-treating chamber, wherein the inside of said tubular barrel is divided into two or more accommodating sections, said accommodating sections being defined, so that the distance between said accommodating section and said evaporating section can be varied by rotating said tubular barrel.

5. A deposited-film forming apparatus according to claim 4, wherein the inside of said tubular barrel is divided radiately from a rotational axis into two or more accommodating sections.

6. A process for forming a deposited film using a deposited-film forming apparatus according to claim 1 or 4.

7. A process for forming a deposited film according to claim 6, wherein the work piece is a rare earth metal-based permanent magnet.

8. A process for forming a deposited film according to claim 6, wherein the depositing material is at least one material selected from the group consisting of aluminum, zinc, tin and magnesium and an alloy containing at least one of these metal components.